Data Sheet

We make sure

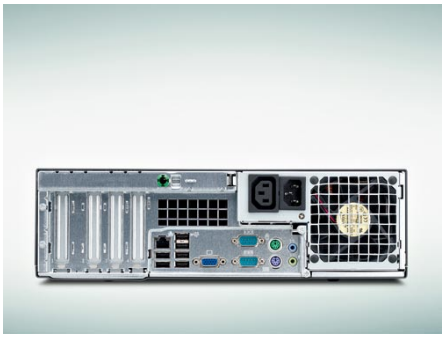
FUJITSU COMPUTERS SIEMENS

ESPRIMO E7935 E-Star 4.0

Your desktop PC without any compromises

Issue: January 2009

Fujitsu Siemens Computers is the leading European IT manufacturer. With a strategic focus on innovative mobility and the dynamic data center, we offer a unique range of products and services from notebooks and desktops to servers and IT infrastructure solutions. Famous German engineering and exceptional in-house quality testing capabilities in our test centers ensure extraordinary product quality and reliability across all product lines.



ESPRIMO E7935 E-Star 4.0
The ESPRIMO E7935 can be positioned vertically or horizontally - the ideal choice for your desk. Equipped with state-of-the-art Intel® technology, especially with regard to system management, this PC, made of environmentally conscious material, operates reliably and quietly. Additionally equipped with an 80% efficiency power supply and with specially selected components this device has been awarded the Energy Star 4.0 certificate. Why compromise between a good conscience and top-quality equipment when you can have both at the same time?

Small form factor PC
Flexible desktop solution whatever the space required.
- Less than 13 litres volume; also usable as thin client

Environmentally compatible product
Your contribution to environmental protection for the continued existence of our planet
- Halogen-free mainboard, sophisticated product concept for the entire lifecycle

Quiet
Pleasant working environment due to an extremely quiet system
- Innovative hardware design, optimized cooling concept

System management
Simple system administration for complex IT infrastructures
- Latest Intel® Q45 chipset and Intel® vPro™ technology (with selected processors)

Energy Star 4.0
Low power consumption and costs with no loss in performance.
- Power supply up to 85% efficiency and specially selected components

ENERGY STAR · intel Core 2 Quad · intel Core 2 vPro · NORDIC ECOLABEL

Green IT · HALOGEN FREE · QUIET RUNNING · EASY ACCESS CABINET · TWINLOAD · SWITCH MONITOR OUTLET · FAMILY CONCEPT · MANAGEABILITY · KEYBOARD POWER ON

Components

Processor	Intel® Core™2 Quad Q9550 (2.83 GHz, 12 MB, 1333 MHz) Intel® Core™2 Quad Q9400 (2.66 GHz, 6 MB, 1333 MHz) Intel® Core™2 Quad Q8200 (2.33 GHz, 4 MB, 1333 MHz) Intel® Core™2 Duo E8600 (3.33 GHz, 6 MB, 1333 MHz) Intel® Core™2 Duo E8500 (3.16 GHz, 6 MB, 1333 MHz) Intel® Core™2 Duo E8400 (3.0 GHz, 6 MB, 1333 MHz) Intel® Core™2 Duo E7500 (2.93 GHz, 3 MB, 1066 MHz) Intel® Core™2 Duo E7400 (2.8 GHz, 3 MB, 1066 MHz) Intel® Core™2 Duo E7300 (2.66 GHz, 3 MB, 1066 MHz) Intel® Pentium® E5400 (2.70 GHz, 2 MB, 800 MHz) Intel® Pentium® E5300 (2.6 GHz, 2 MB, 800 MHz) Intel® Pentium® E5200 (2.5 GHz, 2 MB, 800 MHz) Intel® Pentium® E2220 (2.4 GHz, 1 MB, 800 MHz) Intel® Pentium® E2200 (2.2 GHz, 1 MB, 800 MHz) Intel® Celeron® E1400 (2.0 GHz, 512 KB, 800 MHz) Intel® Celeron® E1200 (1.6 GHz, 512 KB, 800 MHz)
Memory modules	4 GB (1 module(s) with 4 GB, DDR2), 800 MHz 2 GB (1 module(s) with 2 GB, DDR2), 800 MHz 1 GB (1 module(s) with 1 GB, DDR2), 800 MHz
Hard disk drives (internal)	SATA II, 7200 rpm, 500 GB, 3.5-inch S.M.A.R.T. SATA II, 7200 rpm, 250 GB, 3.5-inch S.M.A.R.T. SATA II, 7200 rpm, 160 GB, 3.5-inch S.M.A.R.T.
Hard disk notes	Supporting NCQ and 3 GBit
Graphics add on cards (optional)	DVI Adapter NVIDIA® Geforce® 9300GE low profile 256 MB NVIDIA® Geforce® 9300GE low profile 512 MB NVIDIA® Geforce® 9500GS low profile 512 MB NVIDIA® Quadro NVS 290 low profile 256 MB
Modular bay options	1.44 MB Floppy, standard Blu-ray Disc Triple Writer DVD-ROM DVD Super Multi MultiCard Reader 15in1, 3,5-Inch
Interface add on cards/components (optional)	FireWire PCI-Card IEEE1394 eSATA Interface Dual serial card PCI LP

Base unit	**ESPRIMO E7935 E-Star4**
Mainboard	
Mainboard type	D2828
Formfactor	proprietary
Chipset	Intel® Q45
Processor socket	LGA 775
Processor quantity maximum	1
System bus (FSB / HT / QPI)	up to 1333 MHz
Memory slots	4 DIMM (DDR2)
Supported capacity RAM (max.)	16 GB
Memory frequency	800 MHz
Memory notes	With future modules. Dual channel support. For dual channel performance, identical memory modules in each channel are necessary (minimum 2 modules).
LAN	10/100/1000 MBit/s Intel® 82567LM
BIOS version	Phoenix 6.0
BIOS features	BIOS Flash EPROM update by software Recovery BIOS
Audio codec	Realtek ALC663
Audio features	Internal speaker supports audio playback, High Definition audio
I/O controller on board	
Serial ATA total	4
thereof eSATA	2 (optional)
Controller functions	Serial ATA II NCQ and 3 GBit AHCI Raid 1/0
Interfaces	
Audio: line-in	1
Audio: line-out	1
Front audio: headphone	1
Front audio: microphone	1
USB 2.0 total	12

Interfaces	
USB front	2
USB rear	6
USB internal	4
VGA	1
DVI	optional
Serial (RS-232)	2 (9pin, 16 byte FIFO, 16550 compatible)
Mouse / Keyboard (PS/2)	2
Ethernet (RJ-45)	1
Parallel	optional (25pin with EPP and ECP)
Input device / components	
	Optical USB tilt wheel mouse Optional: Optical USB/PS2 tilt wheel mouse
Drive bays	
Drive bays total	3
3.5-inch internal bays	1
3.5-inch external bays	1
5.25-inch external bays	1
Drive bay notes	optional external bay as internal 3,5”
Slots	
PCI-Express x16	1 x (210 mm) low profile
PCI-Express x4 (mech. x8)	1 x (210 mm) low profile
PCI (32-bit / 33 MHz)	2 x (190 mm) low profile
Slots optional configuration	or 1x PCI Express x16 low profile (190mm) and via Riser 2 x PCI full heigh (174 / 210 mm)
Graphic on board	
Graphics brand name	Intel® GMA 4500
Shared video memory	Up to 256 MB
Refresh rate 1024 x 768 (recommended / max.)	85 Hz / -
Refresh rate 1280 x 1024 (recommended / max.)	85 Hz / -
Refresh rate 1600 x 1200 (recommended / max.)	85 Hz / -
TFT resolution (VGA)	1360 x 768 pixel 1440 x 900 pixel 1680 x 1050 pixel 1920 x 1200 pixel
TFT resolution (DVI)	1360 x 768 pixel 1440 x 900 pixel 1680 x 1050 pixel 1920 x 1200 pixel
Graphic notes	Tested resolutions, depending on display type additional resolutions and frequencies possible Shared memory depending on main memory size Resolution (color depth up to 32 Bit/pixel) For TFT we recommend to use 60Hz.
Electrical values	
Power efficiency note	power supply efficiency (at 230V; 20% / 50% / 100% load) : 82% / 85% / 83%
Rated voltage range	100 - 240 V
Rated frequency range	50 - 60 Hz
Operating voltage range	90 - 264 V
Operating line frequency range	47 - 63 Hz
Max. output of power supply	300 W
Power factor correction/active power	active
Monitor outlet	Switched
Power consumption	
Power consumption note	see white paper Energy Consumption
Link to Energy White Paper	http://docs.fujitsu-siemens.com/dl.aspx?id=001a2066-ed23-40d2-bd53-8696eb91a175
Heat dissipation	
Heat dissipation notes	see white paper Energy Consumption
Noise for standard configuration (HDD, ODD, FDD)	
Noise emission	According to ISO9296
Related Processors for noise	Intel® Core™2 Duo E8600
Noise Operation mode 1: ODD load (Blue angel requirement)	5.0 B / 36 dB(A)
Noise Operation mode 2: HDD load (Blue angel requirement)	3.5 B / 19 dB(A)
Noise Operation mode 3: CPU 90% load (Blue angel requirement)	3.5 B / 18 dB(A)
Noise Operation mode 4: High load	3.5 B / 19 dB(A)
Noise Operation mode 5: Office applications	3.5 B / 19 dB(A)
Idle mode (Blue Angel requirement)	3.5 B / 19 dB(A)
Noise notes / description	A weighted sound power level Lwad (in B) / workplace related A-weighted sound pressure level LpAm (in dB(A)), Bystander position

Dimensions / Weight / Environmental	
Dimension (W x D x H)	340 x 380 x 100 mm
Operating position	Vertical / horizontal (no feet needed)
Weight	approx. 10 kg
Weight notes	Weight may vary depending on actual configuration.
Operating ambient temperature	15 - 35°C
Compliance	
Germany	Blauer Engel / Blue Angel in progress
	GS optional
Europe	CE
	Nordic Swan in progress
	EN60601-1-2
USA/Canada	FCC Class B
	UL
	CSA
Global	RoHS (Restriction of hazardous substances)
	WEEE (Waste electrical and electronical equipment)
	Microsoft Operating Systems (HCT / HCL entry / WHQL)
	Energy Star 4.0
	EPEAT
Compliance link	https://sp.fujitsu-siemens.com/sites/certificates/default.aspx
Operating system	
Operating system optional preinstalled	Microsoft® Windows Vista® Home Basic
	Microsoft® Windows Vista® Home Premium
	Microsoft® Windows Vista® Business 32bit
	Microsoft® Windows Vista® Business 64bit
	TwinLoad Microsoft® Windows® XP Professional (DVD)
Operating system compatible	Linux
Additional Software	
Additional software (preinstalled)	Nero Essentials (burning software)
Additional software (optional)	Recovery DVD (Windows® XP / Windows Vista®)
	Drivers & Utilities DVD (DUDVD) Windows Vista®
	Drivers & Utilities DVD (DUDVD) Windows® XP
	Keyboard on (Fujitsu Siemens Computers keyboard required)
	Thermal management
Spare part availability	5 years
Compatibility (references)	
	DMI 2.0
	PC 2001
	WMI 1.5
	USB 2.0
Manageability	
Manageability features	ASF 2.0 (Alert Standard Format)
	DeskUpdate Driver management
	DeskView Migrate (optional)
	DeskView Control (optional)
	PXE 2.1 Boot code
	BootP Boot Code including Bootmanage Administrator Software (tested)
	Wake up from S5 (off mode)
	Intrusion switch (optional)
	iAMT 5.0
Manageability type	DeskView 10.x client management including:
DeskView features	On/Offline remote client management
	Detailed system inventory management and reports
	BIOS Management
	Remote power management
	System notifications
	Advanced alerts (ASF implementation)
	Security Remote Control
	DeskView Helpdesk Integration
	WoL (Wake on LAN)
Manageability link	http://www.fujitsu-siemens.com/manageability
	http://www.altiris.com/fsc
Security	
Physical security	Kensington Lock support
	Eye for padlock
	Optional: Integrated cabinet lock
System security	Boot sector virus protection
	Write protect option for the Flash EPROM
	Embedded security (TPM 1.2) - Infineon
	Control of all USB interfaces
	External USB ports can be disabled separately
	Boot protection for floppy disk / CD drive and write protection for floppy disk drive
	Control of external interfaces

Security	
User security	User and supervisor BIOS password SystemLock 2 BIOS SmartCard Security Hard disk password Optional: Access protection via external SmartCard reader Optional: Access protection via internal SmartCard reader
Serviceability	
	FlexySlot EasyFix EasyChange for HDD EasyChange for optical drives
Packaging information	
Packaging dimension	500x290x540 mm
Max. quantity / pallet	24
Material - Weight (g) Carton	1270 g
Material - Weight (g) EPS / PS	230 g
Material - Weight (g) PE	appr. 60 g
Packaging notes	printed user documentation is bleached in chlorine free process
Warranty	
Maintenance and Support Services - the perfect extension	
Recommended Service	5x9, Response Time: Next Business Day
Spare Parts availability	5 years
Service Weblink	www.fujitsu-siemens.com/Supportservice

Information about environmental care, policies, programs and our Environmental Guideline FSC 03230:
http://www.fujitsu-siemens.com/aboutus
Take back and Recycling information:
http://www.fujitsu-siemens.com/recycling

All rights reserved, including intellectual property rights. Technical data subject to modifications and delivery subject to availability. Any liability that the data and illustrations are complete, actual or correct is excluded.
Designations may be trademarks and/or copyrights of the respective manufacturer, the use of which by third parties for their own purposes may infringe the rights of such owner.
For further information see http://www.fujitsu-siemens.com/terms_of_use.html
Copyright © Fujitsu Siemens Computers January 2009

Published by
Fujitsu Siemens Computers
http://www.fujitsu-siemens.com/